

Heewoong Choi

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🏠 Homepage

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Research Interest

I aim to build adaptive AI agents that reason, plan, and act reliably in the real world. I approach this through reinforcement learning, world models, and self-evolving agents.

Education

MS/PhD	Seoul National University , Electrical and Computer Engineering	2023.03 – Present
	- GPA: 4.11/4.3 M.IN.D Lab (Advisor: Taesup Moon)	
BS	Seoul National University , Electrical and Computer Engineering	2017.03 – 2023.02
	- GPA: 4.13/4.3 (cumulative), 4.18/4.3 (major) - Leave of absence for military service (Mar 2019 - Feb 2021)	

Publications

(*: equal contribution)

[C4] Option-aware Temporally Abstracted Value for Offline Goal-Conditioned Reinforcement Learning paper code project page	NeurIPS 2025 (Spotlight)
Hongjoon Ahn*, Heewoong Choi* , Jisu Han*, Taesup Moon	
[C3] Genomic Data Classification via Universal Compression paper	ISMB/ECCB 2025
Yasmine Omri, Naomi Sagan, Eugene Min, Heewoong Choi , Taesup Moon, Tsachy Weissman	
[C2] Listwise Reward Estimation for Offline Preference-based Reinforcement Learning paper code project page	ICML 2024
Heewoong Choi , Sangwoon Jung, Hongjoon Ahn, Taesup Moon	
[C1] NCIS: Neural Contextual Iterative Smoothing for Purifying Adversarial Perturbations paper	WACV 2024
Sungmin Cha, Naeun Ko, Heewoong Choi , Youngjoon Yoo, Taesup Moon	

Work Experience

NAVER CLOVA , AI engineer intern at CLOVA Image-Vision team	2022.06 - 2022.11
Developed a head pose estimation model for real-time applications.	

Honors

Presidential Science Scholarship	2017.03 - 2023.02
Full enrollment fee from Korea Student Aid Foundation (KOSAF)	

Academic Service

- **Conference Reviewer:** NeurIPS (2026)
- **Top Reviewer:** NeurIPS 2026

Teaching

- **TA** Programming Methodology (SNU) S'23, S'24, F'25, S'26

Programming Skills

- C++, Python, Pytorch, Jax